

DOCKET: TUC920010002US1

STORAGE DEVICE MOUNTED IN PORTABLE
DATA STORAGE MEDIA TYPE CARTRIDGES

ABSTRACT

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A data storage cartridge having an data storage device, such
5 as an encased magnetic disk drive assembly, is, in one
embodiment, of generally an exterior dimensional form factor of a
tape cartridge having a leader block with a hole therethrough for
engagement by a threading pin. To distinguish the cartridge from
a tape cartridge, the cartridge shell comprises a blocking
10 portion at the location of the leader block hole. A transfer
station both identifies the cartridge and indicates the presence
of the cartridge at an end of travel in a cartridge receiver,
employing an optical source and an opposed sensor directed toward
the leader block hole when a cartridge is at the end of travel.
15 In another embodiment, an encased magnetic disk drive assembly is
supported and mounted in a cartridge shell by a shock mount. A
flex cable interconnects the rear of the encased magnetic disk
drive assembly with an external data transfer interface at the
opposite side of the cartridge for data transfer with respect to
20 a transfer station and to provide mechanical isolation.